Canon

USB Print & Scan

User Guide

Version 3.0

meap POWERED BY

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How This Manual is Organised

Chapter 1	**Introduction**
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Preface

This manual is designed for use by day-to-day users of USB Print & Scan to help them upload documents to, and print documents from, their USB sticks and USB Hard Disk Drives (HDD). Please read this manual thoroughly before operating the product in order to familiarise yourself with its capabilities.

How to Use This Manual

This manual assumes that the reader has knowledge of printers and Windows operations.

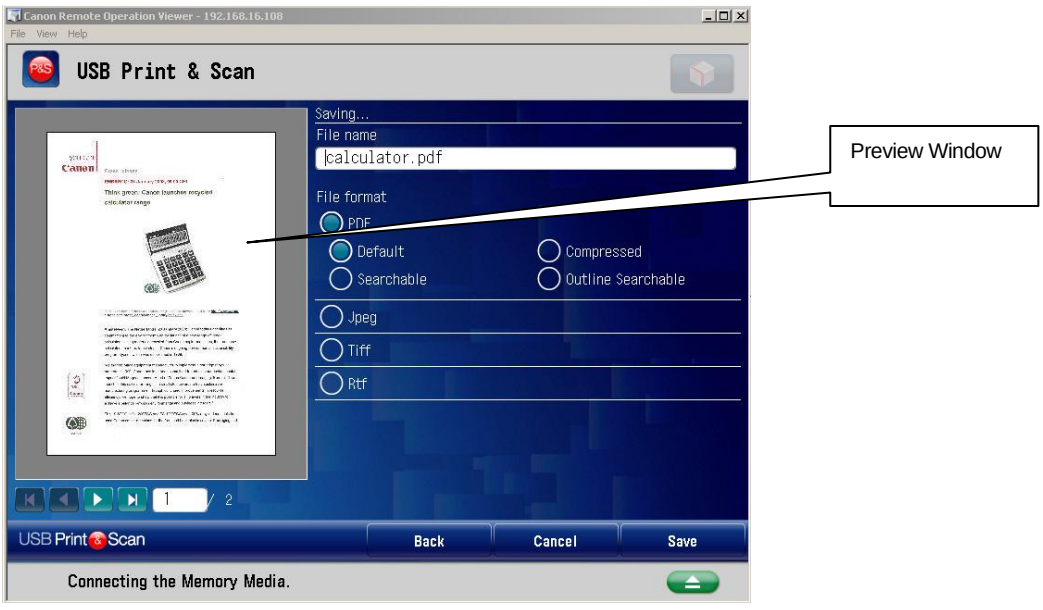
Conventions Used in This Manual

The following conventions are used throughout the manual:

	Important	Indicates important items or precautions that should always be observed. These should always be read to avoid damage to the application due to improper operation.
	NOTE	Indicates items for reference or supplementary information. Reading these notes is highly recommended.
	Field Names	Field names are highlighted in bold and italic text.
	Buttons	Buttons are highlighted in bold text.
	[Screen Names]	The names of screens, windows and dialogs are within square brackets

Displays Used in This Manual

The screen shots in this manual are from USB Print & Scan, Version 3.0, running on a MEAP iR device, unless otherwise specified. Specific areas of the screen are highlighted as follows:



Chapter 1: Introduction

This chapter provides a brief overview of the USB Print & Scan application and outlines the system environment required to install and run the application.

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USB Print & Scan Overview

The USB Print & Scan application is a MEAP application that allows customers to print data from, scan data to, or preview data stored on a USB mass storage device.

Version 3.0 can also work in conjunction with the optional USB Print & Scan v3.0 Server to enhance its functionality. The server solution includes two plug-ins:

- USB Print and Scan V3.0 Server Plug-in – to support Microsoft Office Systems 2003 or 2007.
- USB Print and Scan V3.0 Server Plug-in – to support Portable Document Format ("PDF") conversion.

The first plug-in gives users the power to print Microsoft Word, Excel and PowerPoint files directly from USB Devices to MFP devices and to scan directly from MFP devices onto USB devices in editable .RTF format.

The second plug-in down levels later versions of PDF (1.7, 1.6, 1.5 or 1.4) to version 1.3 if the device is unable to support the higher specification of the PDF file to be printed.

Storage Devices

The following storage devices are supported:

- USB Memory Stick
- USB Hard Disk
- USB Card Reader

File Systems

The application supports USB memory devices formatted with FAT12, FAT16 and FAT32 file systems. NTFS file systems are not supported.

NOTE The imageRUNNER ADVANCE can work in two modes. The native mode (default) uses the native/system mass storage driver to access the memory device. When run in this mode the supported file system formats are as specified by the native driver (i.e. the same as the native USB storage applications). However the imageRUNNER ADVANCE can be run in "MEAP" mode where the MEAP mass storage driver is used. In this mode the supported file systems are as described in this section. Please contact your Canon Representative if there are issues with USB memory devices which are formatted with one of the supported file systems.

File Names

Under FAT file systems file names are limited to 255 characters and can be any combination of letters, digits or characters with code point values greater than 127. The special characters shown below are also permitted:

$ % ' - _ @ ~ ` ! ( ) { } ^ # & + , ; = [ ] . SPACE

The total length of a file path must not exceed 259 characters.

The following rules apply:

- Embedded spaces are permitted but leading and trailing spaces are ignored.
- Leading and embedded periods are allowed but trailing periods are ignored.
- Both upper case and lower case characters are permitted.

File Formats

Printing and Previewing Formats

USB Print & Scan prints or previews files stored on the mass storage device in any of the formats shown in the table below:

File Type	Format / Version	Supported Devices
Adobe PDF	Fully supported up to PDF Version 1.3 (Acrobat 4.x) Support for higher versions (up to PDF Version 1.7 (Acrobat 8.0)) subject to printing restrictions. Printing restrictions vary according to device (see table below). PS Print Kit or Direct Print Kit required for all versions.	Refer to PDF Support table below.[1+4]
TIFF	CCITT Group 4	All devices
JPEG	Any format	All devices
TXT	Plain text	All devices[3]
RTF	Rich text format	All devices[2+4]
DOC	MS Office Word	All devices[2+4]
PPT	MS Office PowerPoint	All devices[2+4]
XLS	MS Office Excel	All devices[2+4]
DOCX	MS Office Word	All devices[2+4]
PPTX	MS Office PowerPoint	All devices[2+4]
XLSX	MS Office Excel	All devices[2+4]

NOTE[1] The Secure PDF format is not supported. Although Secure PDF files appear on the User Interface as PDF files, they cannot be printed and a PDL PDF Data Decode Error is displayed when attempting to print.

NOTE[2] Support for RTF, MS Office Word, PowerPoint and Excel files is provided via the standalone server option, i.e. the USB Print & Scan V3.0 Server MS Office Support plug-in product.

NOTE[3] Requires PCL5e. Either of the following are required for PCL5e:

1. PCL standard model. For instance, iRxxxxN, iRCxxxxi.

Or

2. UFR II/PCL Printer Kit (for non PCL standard model)

NOTE[4] Requires PS Print Kit or Direct Print Kit (if Direct Print kit available for that device). Please check memory option requirements for these kits.

PDF Support Table

USB Print & Scan fully supports up to PDF v1.3 files for the list of Canon devices, which support USB Print & Scan except for the 30xx range. PDF files conforming to higher specifications may not print properly, dependent on the file and the device. If configured, a warning message will be displayed which will warn the user of potential printing or previewing errors for a PDF file conforming to a higher specification than the device supports. A PDF Support plug-in exists, however, the USB Print & Scan V3.0 Server PDF Support plug-in product. This runs on a server and down levels later versions of PDF to version 1.3 to allow them to print/preview, if the device is unable to support the higher specification of the PDF file to be printed/previewed.

The table below shows the versions of PDF officially supported on each device and any printing restrictions associated with a particular version.

It may be possible to print from a higher version of PDF than that specified when the new features of the higher version are not being used by a particular document.

Supported Devices	**PDF / Acrobat Version**	**Restriction**
iR3025/N 3035/N 3045/N	1.2 or lower (Acrobat 3.0)	Prints according to the spec for PDF Ver1.2 or lower.
	1.3 (Acrobat 4.0)	Prints according to the spec for PDF Ver1.3. However, the following items are not supported: -File Specifications -ICC Based Color Space -Interactive Forms -Electric signature -Linearized PDF
	1.4 or higher (Acrobat 5.0)	Data using the functions added in PDF Ver1.4 or higher versions cannot be output (print). However, files encrypted with RC4-128bit (PDF Ver1.4) can be printed.
iRC5185i	1.4 or lower (Acrobat 5.0)	Prints according to the spec for PDF Ver1.4 or lower.

Supported Devices	PDF / Acrobat Version	Restriction
iRC4580i iRC4080i iRC2380i iRC3080/i iRC3580/i iRC2880/i iRC3380/i iR6880C/i iR5880C/i iR3180C/i iR5055/N iR5065/N iR5075/N		
iR3225/N iR3235/N iR3245/N	PDF Version 1.6 or below (Acrobat 7.0)	Prints according to the spec for PDF Ver1.6 or below. However, the following items are not supported: - JBIG2 decoder - JPX(JPEG2000) decoder - File Specification (Reference to external files not supported) - Only Public Key Security - Handler (PDF Standard security handler supported) - PS XObject - Transfer Functions - Halftones - Transparency Groups - Free Text Annotations (XHTML, XML, CSS:Non-correspondence) - Field Dictionaries (Rich Text Strings: Non-

Supported Devices	PDF / Acrobat Version	Restriction
		correspondence) - Digital Signatures (Its validity is not verified, however it is printed. If the icon that indicates the presence of a signature in a PDF file or the one indicating the possibility of falsification exists, print is executed in a state that the validity is unclear.) - File Identifiers (Reference to external files not supported) - Output Intents - Open Prepress Interface (OPI) - 3D Artwork (3D model is not displayed, and any alternate image is output.)
imageRUNNER ADVANCE C5051(i) / C5045(i) / C5035(i) / C5030(i)	PDF Version 1.7 or below (Acrobat 8.0)	Prints according to the spec for PDF Ver1.7 or below. However, the following items are not supported: - Watermarks
imageRUNNER ADVANCE C7055i / C7065i	PDF Version 1.7 or below (Acrobat 8.0)	Prints according to the spec for PDF Ver1.7 or below. However, the following items are not supported: - Watermarks

Scanning Formats

USB Print & Scan can create files on connected storage devices in the formats shown in the table below:

File Type	Pages per file	Supported Devices
Default PDF	Multiple	All devices
Highly compressed PDF	Multiple	Optional on all devices[1]
Searchable PDF	Multiple	Optional on all devices[1]
Outline PDF	Multiple	Optional on all devices[1]
Outline Searchable PDF	Multiple	Optional on all devices[1]
Black and White TIFF	1	All devices

File Type	Pages per file	Supported Devices
Colour JPEG	1	Colour devices only
RTF	Multiple	All devices[2]

NOTE[1] Requires Universal Send Kit and PDF Advanced Feature Set.

NOTE[2] Support for scanning to the editable .RTF format is provided via the standalone server option, i.e. RTF files can only be created when the application is used in conjunction with the USB Print & Scan V3.0 Server MS Office Support plug-in. The RTF file produced and saved to the connected storage device can be viewed and edited if required in MS Word or any other appropriate word processor application, which may be available to the end user.

The scanning functionality included in the USB Print & Scan V3.0 Server product relies on OCR (Optical Character Recognition) functionality to distinguish characters on a page and convert them to editable characters that can be manipulated electronically.

As with other OCR products, the RTF output from USB Print & Scan is not a perfect representation of a printed document. Particular areas where the OCR technology may not reproduce a document accurately are the following:

- Tables of data – table layout may not be retained.
- Logos and pictures – logos may not retain their original font and format. Pictures may not retain their original quality.
- Newspapers – where text bleeds through the page (as may be the case with newspapers) the quality of character recognition may be reduced.
- Bound books and documents - where it is not possible to place an entire document completely flat on the scanner screen, the OCR software will not be able to accurately interpret the characters contained in the document. This will result in editable output which does not completely reflect the source document.

NOTE When a file format only supports one page per file, a file is created for each page. A number is appended to the end of the file name (but before the file extension) which indicates the page number.

NOTE The Secure PDF format is not supported. No option is available to scan to Secure PDF format.

NOTE A memory upgrade is required for 600 x 600 dpi colour scanning on the iR32xx range of devices.

Document Cache Mailbox

When a document is loaded from the memory stick to be previewed, it is stored in a pin code secured mailbox (see *Preview Button* for further information). Both the mailbox and the pin

code used to secure it are specified during the configuration of the application by your Canon Representative. By default mailbox 99 is used.

The document remains in the mailbox until the storage device from which it originated is disconnected. This means that if the document is subsequently printed or previewed the document does not have to be reloaded.

If an attempt is made to cache a document and there is no available space a random document is chosen to be deleted from the cache to make space for the new document. If there are no documents currently in the cache and there is no space available to store the document (because it is being used in other mailboxes) the following error message is displayed:

'There is no more mailbox box space. Please delete some documents and try again.'

Languages

Your application will be configured by your Canon Representative. Please contact them if the application is not displayed in the language of your choice. If your language is not available, the default language of English is used.

Application Platform

Device Support

USB Print & Scan supports various iR devices that are listed in the table below. The MEAP and Firmware version are shown; later versions are supported.

The Postscript iR options are required for the Multifunctional Printer (MFP) in order to print PDF files from within the USB Print & Scan application. The speed at which PDFs are processed is reliant on the processing power of the MFP. The Advanced PDF option is recommended, because it can reduce the size of the PDF files created by USB Print & Scan. The Universal Send Kit and PDF Advanced Feature Set are both required for scanning to advanced PDF options.

Model	MEAP CONT	System Software	Notes
iRC2880i / 3380i	88.02	91.02	
iRC4080i / 4580i / 5185i	91.02	91.02	PS Printer Kit is standard, so neither PS Printer Kit nor Direct Printing Kit are required.
iR3025(N) / 3035(N) / 3045(N)	25.01	30.02	
iR5055(N) / 5065(N) / 5075(N)	50.01	52.01	
iR3180C(i)	61.02	68.92	
iR5880C(i) / 6880C(i)	61.02	67.92	

Model	MEAP CONT	System Software	Notes
iRC2380i	88.02	90.03	
iRC3080i / 3580i	88.02	90.03	
iR3225i / 35 / 45(N)	35.02	35.06	
imageRUNNER ADVANCE C5051(i) / C5045(i) / C5035(i) / C5030(i)	20.25	21.37	2 USB sockets on MFP.
imageRUNNER ADVANCE C7055i / C7065i	25.24	24.07	2 USB sockets on MFP.

NOTE imageRUNNER ADVANCE C9060 PRO / C9070 PRO are not supported because of EFI server 100% attachment ratio and USB Print & Scan does not support the EFI server.

Supported Mass Storage Environment Devices

USB Print & Scan will theoretically work with any USB Mass Storage device with a supported file system (i.e. FAT12, FAT16 and FAT32 file systems). NTFS is not supported.

It is not possible to guarantee compatibility with all the USB Storage Devices on the market. The devices shown in the table below have been tested on the supported iR devices and found to function correctly:

Device Model	Manufacturer	Type
FCR-HS215/1	Kingston	USB 15 in 1 card reader
SDDR-89-E115	Sandisk	USB 12 in 1 card reader
DataTraveller II	Kingston	1Gb USB flash drive
USM4GREX	Sony	4Gb high speed USB flash drive
27036	Freecom	80Gb USB mobile HDD

Some mobile HDDs will not work effectively when powered solely via USB. A separate power adapter is often supplied with the mobile HDD.

The devices shown in the table below have known conflicts with USB Print & Scan:

Device Model	Manufacturer	Type	Note
523CGS0-1G	Novatech	1Gb USB flash drive	Not recognised
ST980801U2-RK	Seagate	80Gb USB mobile HDD	Not enough power can be supplied to HDD through

			the single USB socket

Chapter 2: Using USB Print & Scan

This chapter describes how to use the USB Print & Scan application.

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- Two Sided Scan Setting Radio Buttons 31
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- Save Button 32
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Message Label 46
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USB Print & Scan Initial Panel

When the USB Print & Scan application is started the [Initial Panel] is displayed together with a message requesting you to insert your USB storage device.

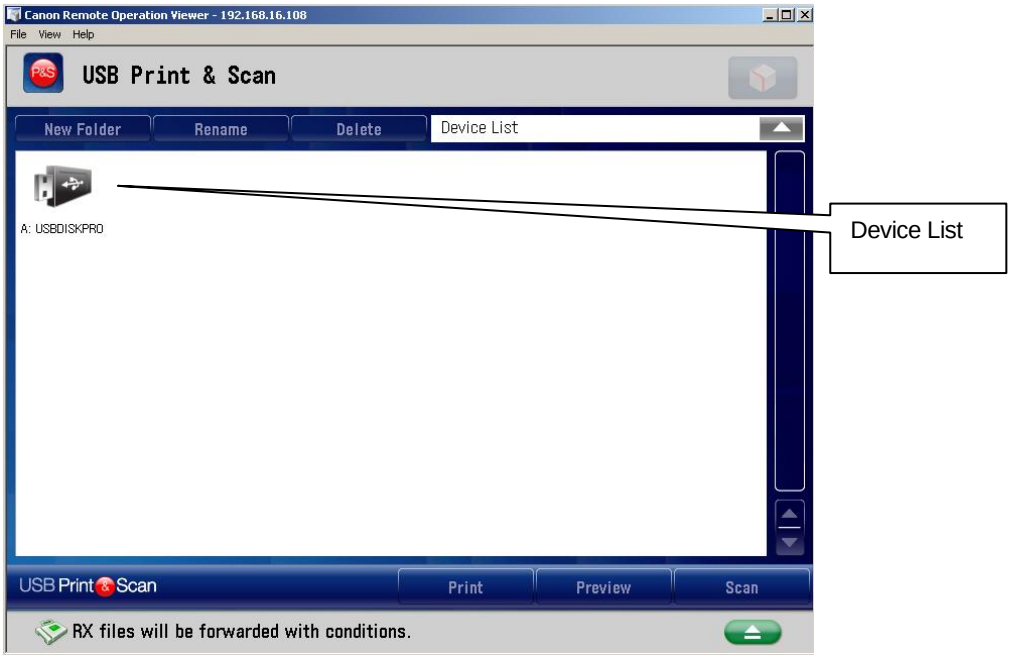
Canon Remote Operation Viewer - 192.168.16.108
File View Help
USB Print & Scan
USB Print & Scan 3
View, Scan and Print from USB storage devices
Insert your USB storage device to continue
RX files will be forwarded with conditions.

File Browser Panel

When the USB storage device is inserted the [Device List Window] is displayed in the [File Browser Panel].

Device List

The [Device List Window] displays a list of USB storage devices.



Device / Volume Formats

The following icon displays in the [Device List Window] and depicts a volume that is found on the storage device. A volume contains a supported file system. The application supports USB memory devices formatted with FAT12, FAT16 and FAT32 file systems. NTFS is not supported.

If a volume is found that contains an unsupported file system such as NTFS, it will be represented by the icon below:

If, while the Device List is displayed in the [Device List Window], a subsequent mass storage device is connected, the volumes found on the new device will also display in the [Device List Window].

If a device is disconnected the volumes associated with the device will be removed from the Device List. If all devices are disconnected, the [Initial Panel] is re-displayed.

The root folder of the file system displays above the Device List.

Volume icons are labelled using the following format:

[Letter]: {[Volume Label] on [Product Name]}

Where:

- **[Letter]** is one or more characters between A and Z. Letters are allocated in the order in which the volumes are detected on the connected devices. If a letter becomes unused because a device has been removed then it is reallocated to the next volume detected

when a new USB device is connected. If all letters between A and Z are allocated, allocation continues from AA. There is no limit on the number of letters that can be allocated.

- **[Volume Label]** is the label allocated to the volume when it was formatted. If no volume has been specified, the volume label and the 'on' part of the label are not displayed.
- **[Product Name]** is the product name of the USB device on which the volume is found. A USB device can contain a number of volumes.

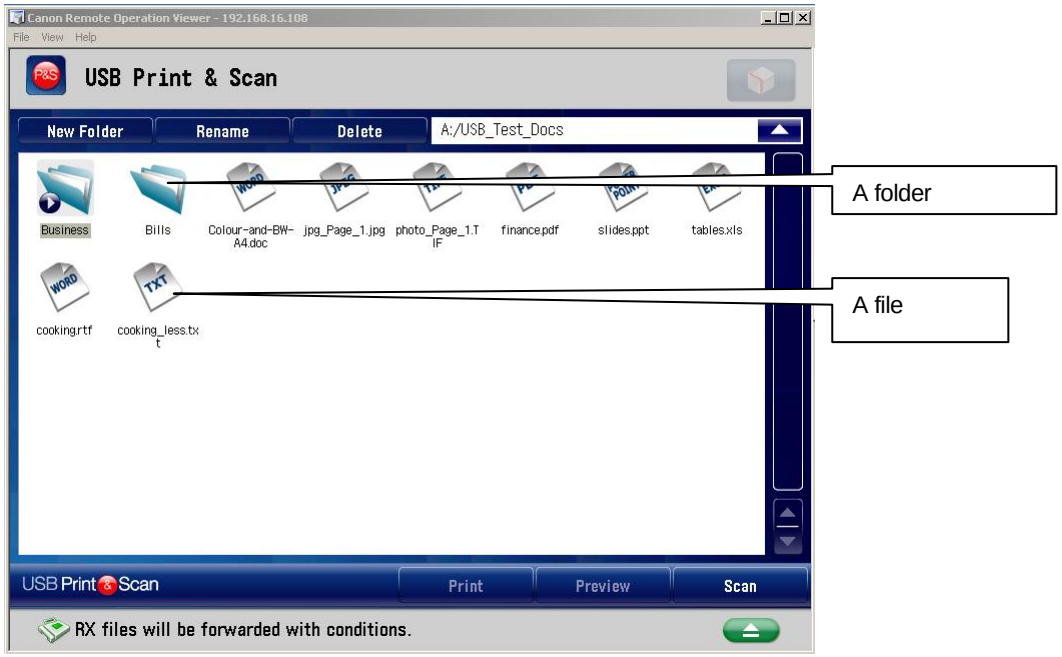
Opening Volumes

A volume can be opened by touching the icon on the screen.

NOTE Touching a volume icon that contains an unsupported file system will do nothing.

File List

When a volume is selected, the [File List Window] is displayed. The File List displays a list of files and directories that are found on the USB storage device.



Folder / File Formats

A suitable icon is used to represent files of a recognised format. File formats are recognised by their file extension only.

Supported files and their icons are shown in the table below:

File format	Icon
PDF	
JPG	
TIFF	
TXT	
RTF	
DOC/DOCX	

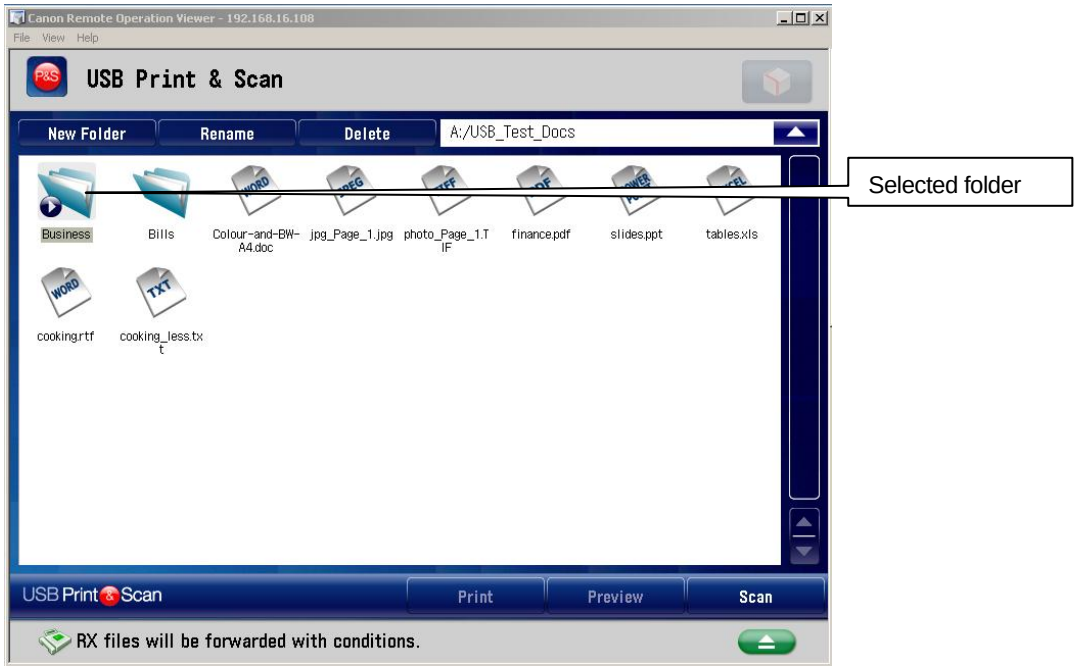
File format	Icon
PPT/PPTX	
XLS/XLSX	
Unsupported file	

The following icon is used to represent a folder. The name of the folder displays under the icon.

Opening Volumes/Folders / Files

Volumes can be opened and browsed by touching the icon on the screen.

Folders can be opened and browsed by touching the icon on the screen twice, once to select it and once to open it.



A file can be selected by touching the appropriate icon on the screen.

When a file is selected, the background of the icon changes colour as shown in the table below:

File format	Icon
PDF	

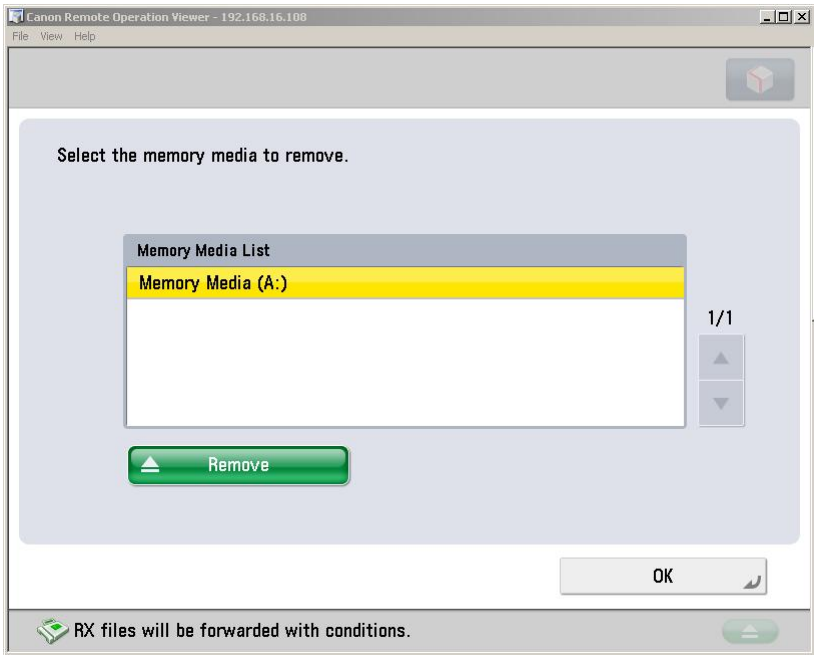
File format	Icon
JPG	
TIFF	
TXT	
RTF	
DOC/DOCX	
PPT/PPTX	
XLS/XLSX	

NOTE Unsupported files are selectable, renameable and deleteable.

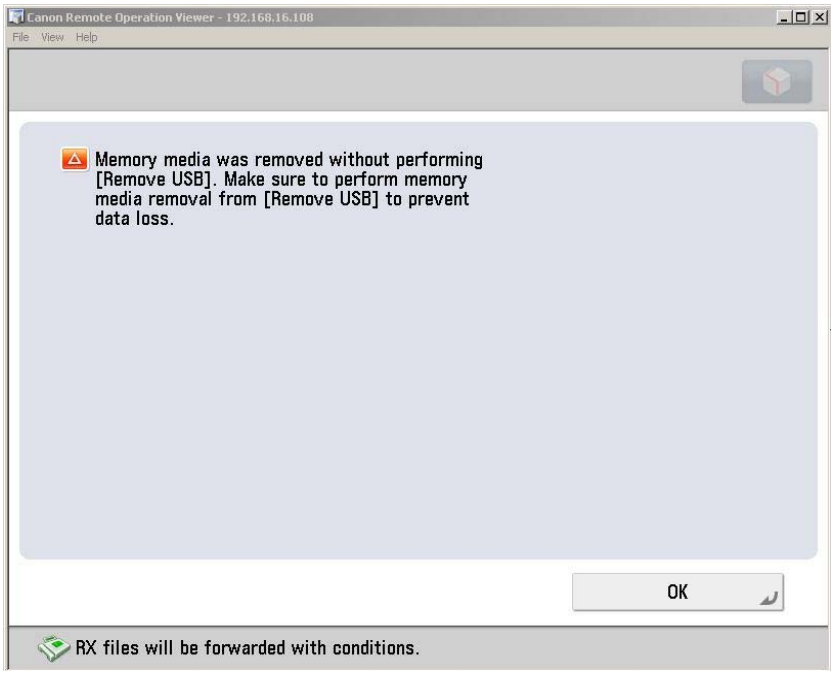
Eject Mass Storage Device Button (imageRUNNER ADVANCE)

If the green icon below is visible at the bottom right hand corner of the screen and you wish to remove the mass storage device you should press on this green icon. If this green icon is not present and you wish to remove the mass storage device, then just remove it. The following figure shows the icon concerned:

After pressing the above button, you will be presented with the following dialog to confirm the mass storage device you wish to remove:



If you removed the mass storage device without pressing the eject mass storage device button, the following warning message will be displayed, just press “ok” to continue:

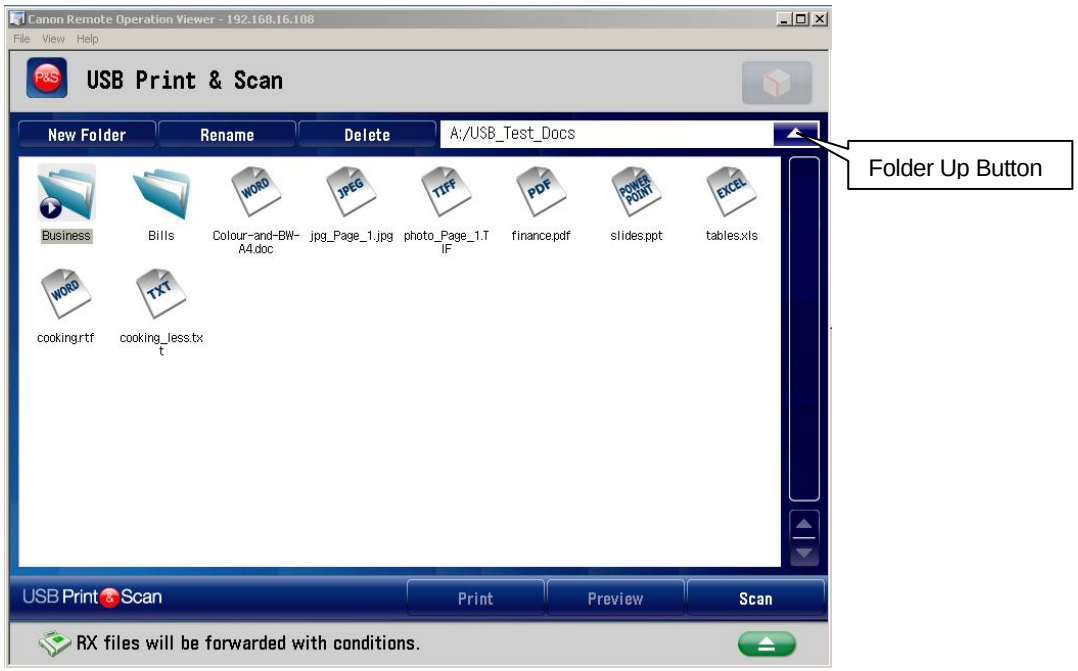

Canon Remote Operation Viewer - 192.168.16.108
File View Help
Memory media was removed without performing [Remove USB]. Make sure to perform memory media removal from [Remove USB] to prevent data loss.
OK
RX files will be forwarded with conditions.

Current Location

The path of the current folder is displayed above the File List. This consists of the volume letter followed by a colon, followed by the path of the current folder.

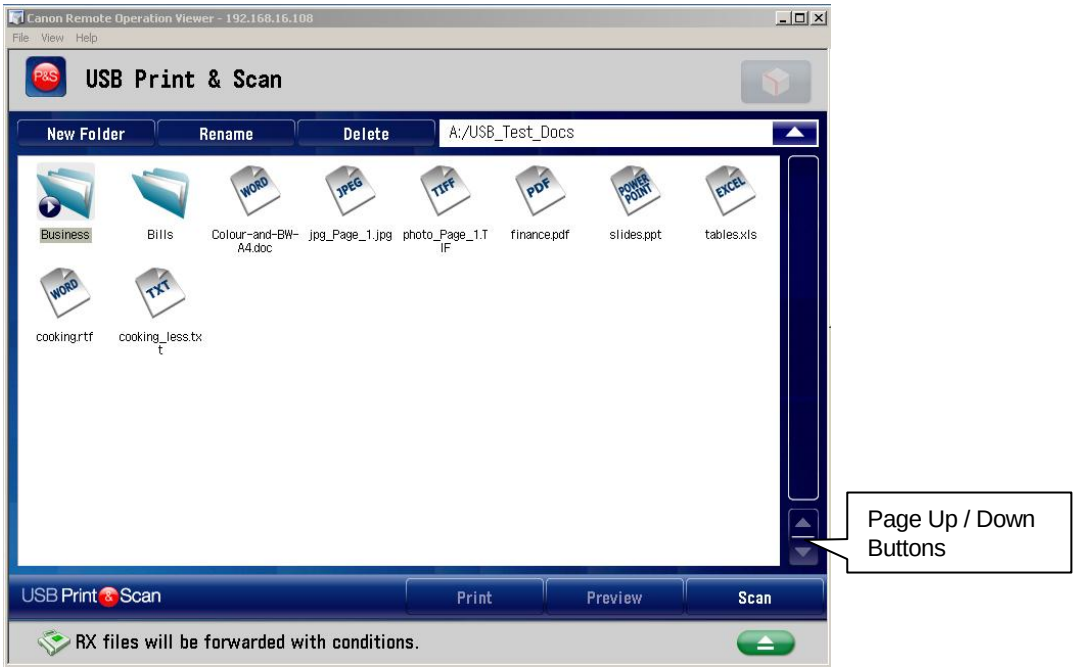
If the path is too long to fit into the space allocated then the first part of the path, between the drive letter and the path, is replaced by three full stop characters. The remaining part of the path shows as much of the path as will fit in the space allocated.

Use the **Folder Up** button to move up and down folders.



Page Up / Down Buttons and Page Indicator Bar

If there are more items in the list than can be displayed at any one time in the [Device List Window] or the [File List Window] the **Up** and **Down** buttons can be used to change the current page of items displayed in the list.



Pressing the **Up** button displays the previous page. When the first page of the list is displayed, this button is disabled.

Pressing the **Down** button displays the next page in the list. When the last page in the list is displayed, this button is disabled.

A bar displays above the page Up and Down buttons to give a visual indication of the number of pages in the list and also the current page being shown. The bar's size is in proportion to the number of pages. For example, if there are two pages the bar is half the size of the allocated space, if there are three pages the bar occupies a third of the allocated space.

The bar is positioned within the allocated space according to the page being displayed. If there are two pages and the first page is being displayed, the bar is located in the top half of the allocated space. When the second page is being displayed the bar is located in the bottom half of the allocated space.

When there is only one page, no bar is displayed.

File Browser Sorting

The file browser can be sorted on different fields:

- Type
- Name
- Creation Date
- Size
- Extension

The above are listed in the default sort order used by the application.

You can also specify ascending or descending sorting. This allows the sorting to be reversed. The default is ascending.

Please contact your Canon Representative if you wish to change the settings used for file browser sorting.

Hide Extensions

Files with certain file extensions can be hidden on the file browser panel.

Please contact your Canon Representative if you wish to hide files with certain file extensions.

Show Hidden Files

Files with their “hidden” attribute set can be shown on the file browser panel. The default is they are shown.

Please contact your Canon Representative if you wish to change the setting used.

Additional Supported Extensions

If a file with a certain extension can be treated in the same way as one of the already supported extensions in USB Print & Scan, this file extension can be mapped to the already supported extension.

Please contact your Canon Representative if you wish this to be configured.

Scan Button

Pressing the **Scan** button displays the [Scanning Panel] (see *Scanning Panel* for further information).

Scanned files are saved into the current folder displayed in the File List. When the list of volumes is shown in the File List this button is disabled.

The Scan button can be hidden via the configuration. Refer to your Canon Representative for further information.

Preview Button

Pressing the **Preview** button starts to load the selected document from the storage device into the Document Cache Mailbox. If an unsupported document is selected this button will be disabled.

While the document is being loaded a progress bar is displayed which shows the current progress of the process.

If the document has already been cached this process is skipped.

When the document has been loaded to the Document Cache Mailbox the [Preview Panel] is displayed (see *Preview Panel* for further information).

The Preview button can be hidden via the configuration. Refer to your Canon Representative for further information.

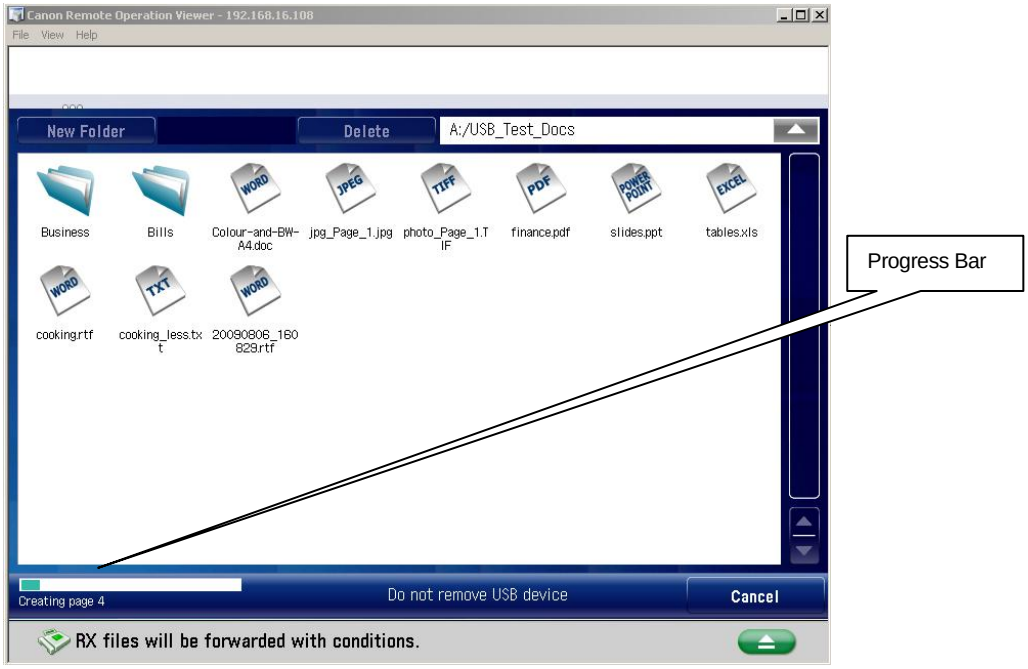
Print Button

Pressing the **Print** button displays the [Print Settings Panel] (see *Print Settings Panel* for further information). If a file is not selected in the [File List Window] then this button will be disabled.

The Print button can be hidden via the configuration. Refer to your Canon Representative for further information.

Progress Bar

When an action is being performed on a document the Progress Bar replaces the application title. When the action has been completed the application title is re-displayed.



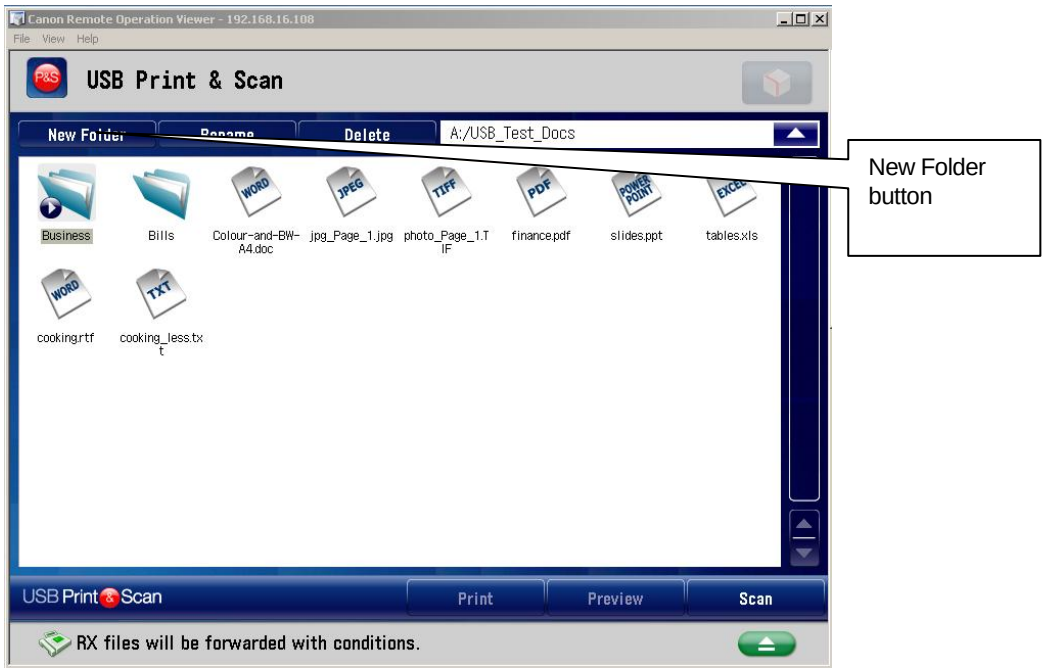
The Progress Bar consists of a bar that increases in size as the action is performed. A brief message is displayed under the bar to describe the current step of the action being performed.

The following table shows the conditions under which the Progress Bar is displayed and the possible messages that can be shown:

Action	Messages
Document printing	Initialising Printer Loading… do not remove USB device Processing… Waiting… printing completed Cancelling… please wait An error occurred during printing Error Out of paper
Document loading (before preview)	Initialising Printer Loading… do not remove USB device Processing…

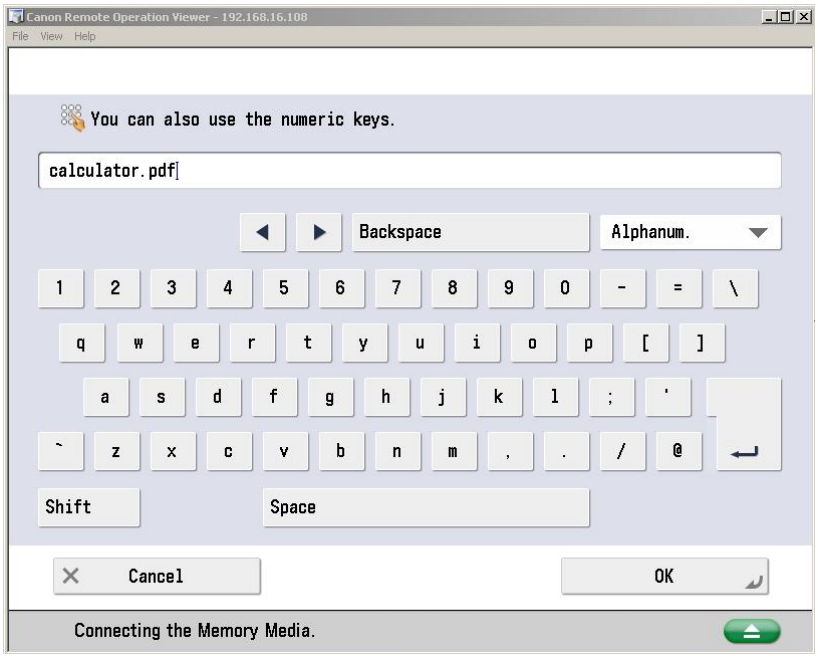
Action	Messages
	Waiting… cancelling… please wait Document could not be previewed Error completed
Document saving	Creating PDF Saving… do not remove USB device not enough file space creating page 1 creating page 2 cancelling… please wait Error completed
Out of Paper	Out of Paper

Create New Folder



Pressing the New Folder button will bring up a field in which you can enter the name of the new folder. If you press within this field, the software keyboard will be displayed. You can use this to type in the characters. When you have typed in the new folder name using the software keyboard, press the “Ok” button on the software keyboard. This will take you back to the “Please enter the name of the new folder” panel.

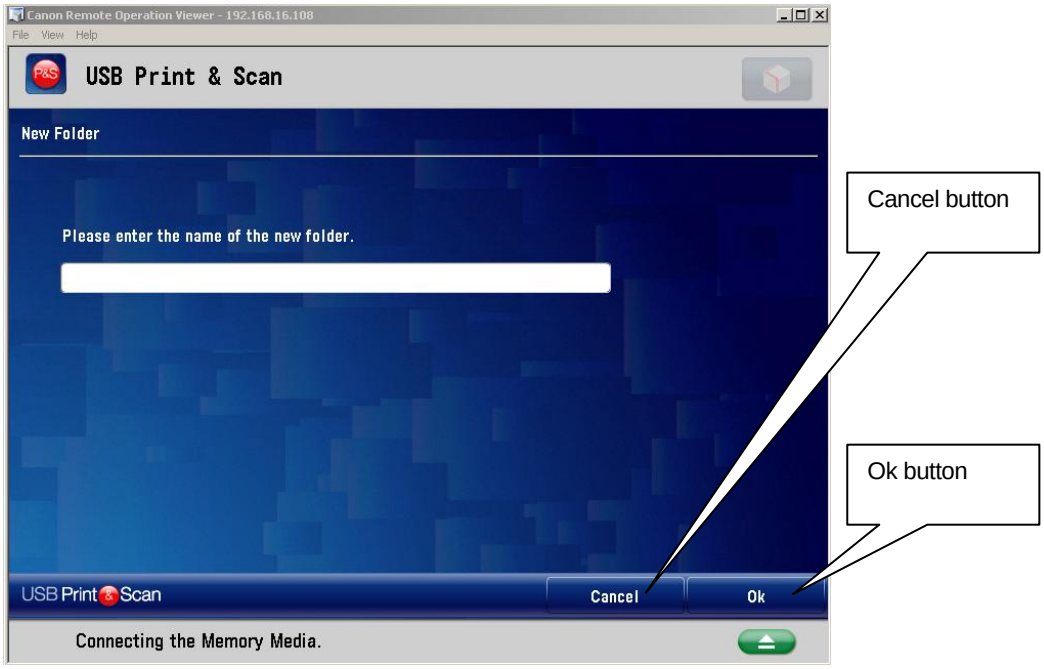
This is a screenshot of the software keyboard used by USB Print & Scan on the imageRUNNER ADVANCE device range:



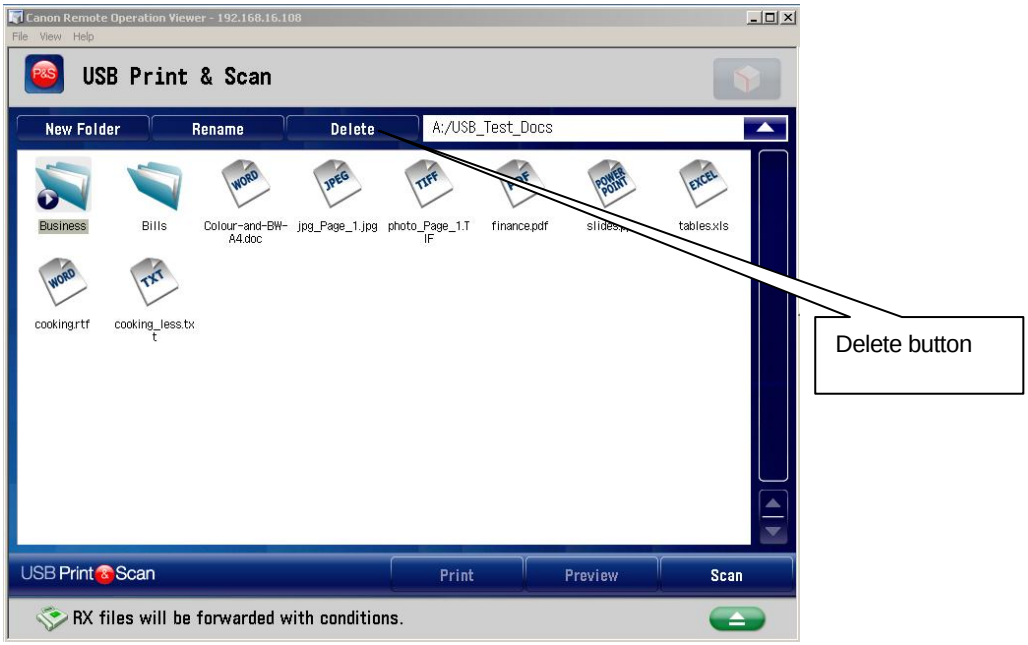
This is a screenshot of the software keyboard used by USB Print & Scan on the other supported devices:

If a hardware keyboard is connected to the device, this it to be used instead. On the imageRUNNER ADVANCE device range, in order to use the USB hardware keyboard for text entry, the firmware software keyboard must be opened. You will then be able to use the USB hardware keyboard for text entry, but the text will show in the firmware software keyboard text window. This will not work on the imageRUNNER ADVANCE device range if the USB Input Device setting is set to the MEAP driver on the device instead of the system (native) driver (please contact your Canon Representative if there are issues with the hardware keyboard and you need to use this for text entry).

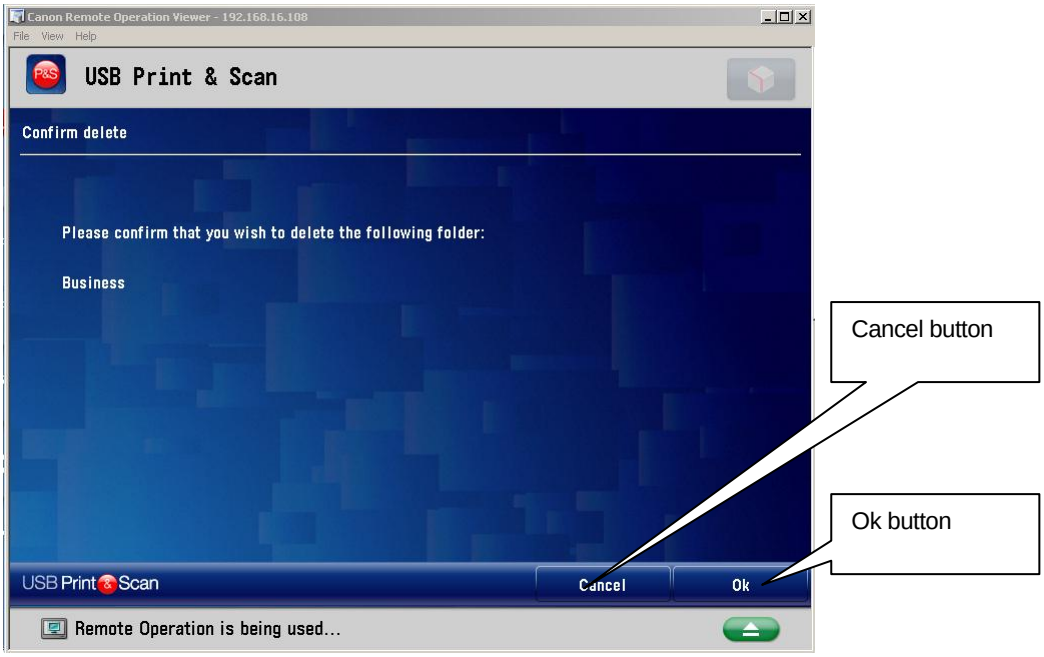
Now you can press the “Ok” button if you wish to create the folder. Press “Cancel” if you want to cancel the operation. Both actions will return you to the File Browser panel.



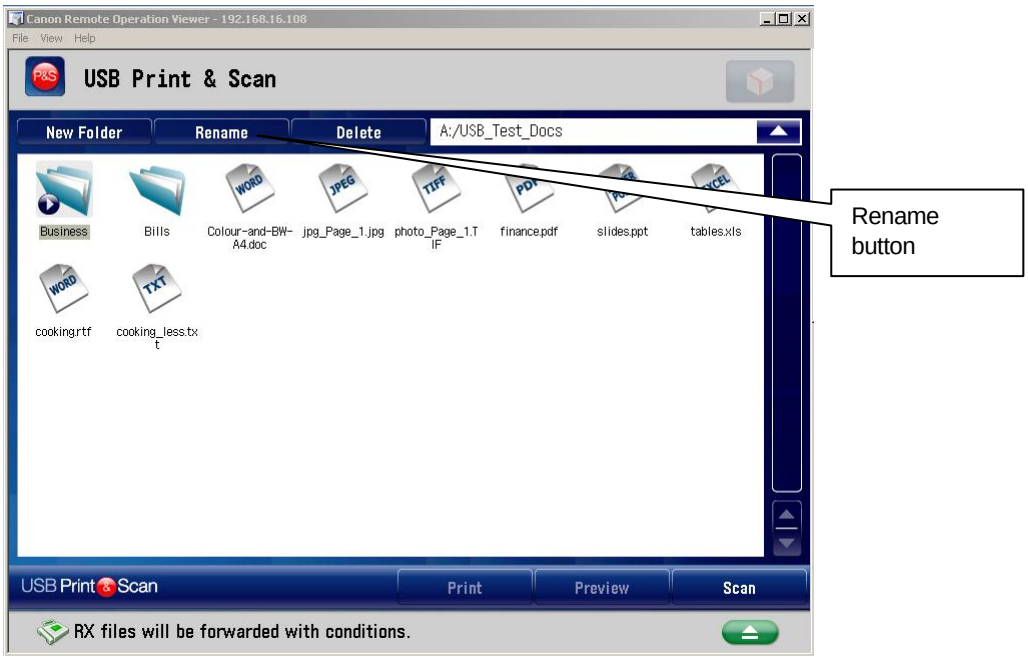
Delete



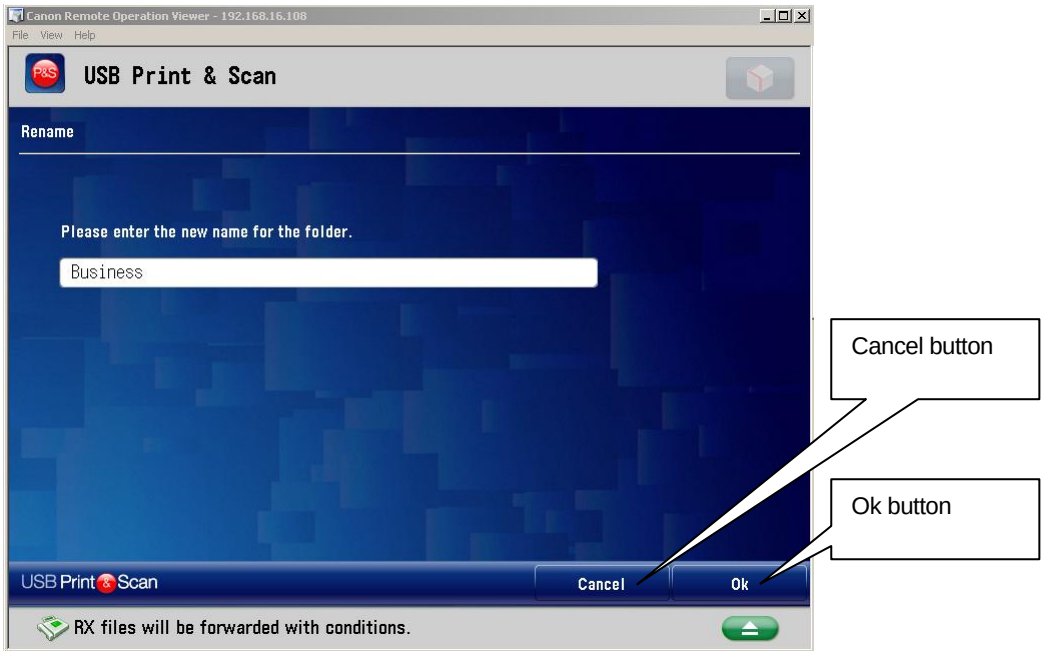
Pressing the Delete button will bring up an ok / cancel confirmation window. Pressing “Ok” will delete the currently selected file or folder. Even if the folder contains files, pressing “Ok” will delete the folder and its children. Pressing “Cancel” will return to the File Browser panel.



Rename



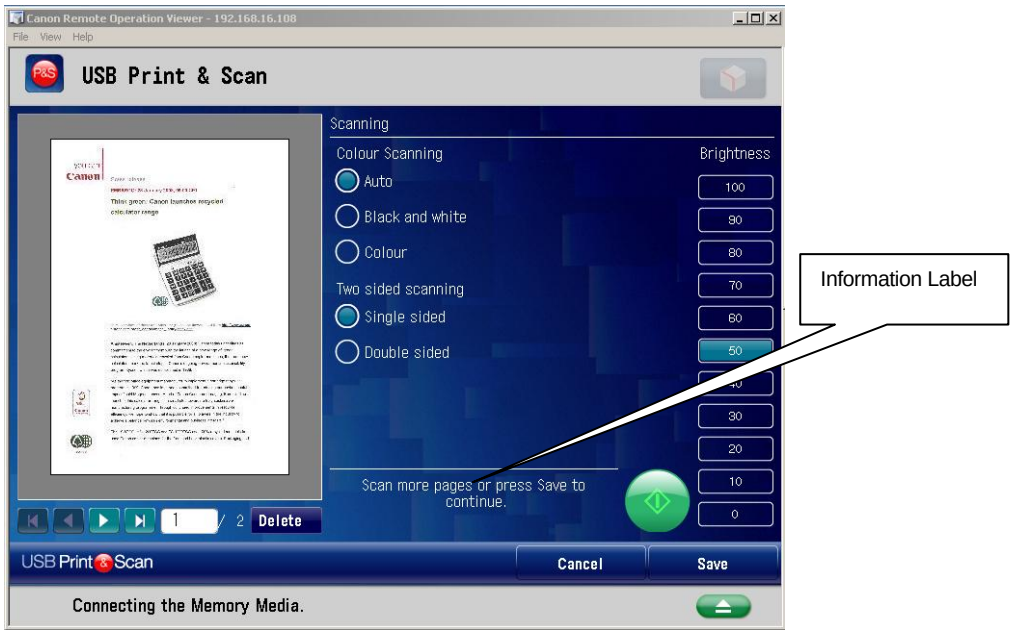
Pressing the Rename button will bring up a field in which you can type in the new name you wish to give this file or folder you have selected for renaming. If you press inside the field the software keyboard will be displayed unless a hardware keyboard is connected. Press “Ok” once you have typed in the new name. If you wish to cancel the operation and be returned to the File Browser panel, press the “Cancel” button.



Scanning Panel

The [Scanning Panel] is displayed when you press the **Scan** button on the [File Browser Panel].

This panel enables you to set up scanning options before scanning a selected document.



Information Label

The Information Label either prompts you for an action or updates you on the progress of an operation.

The possible text data that can display in the label and the condition under which it is displayed

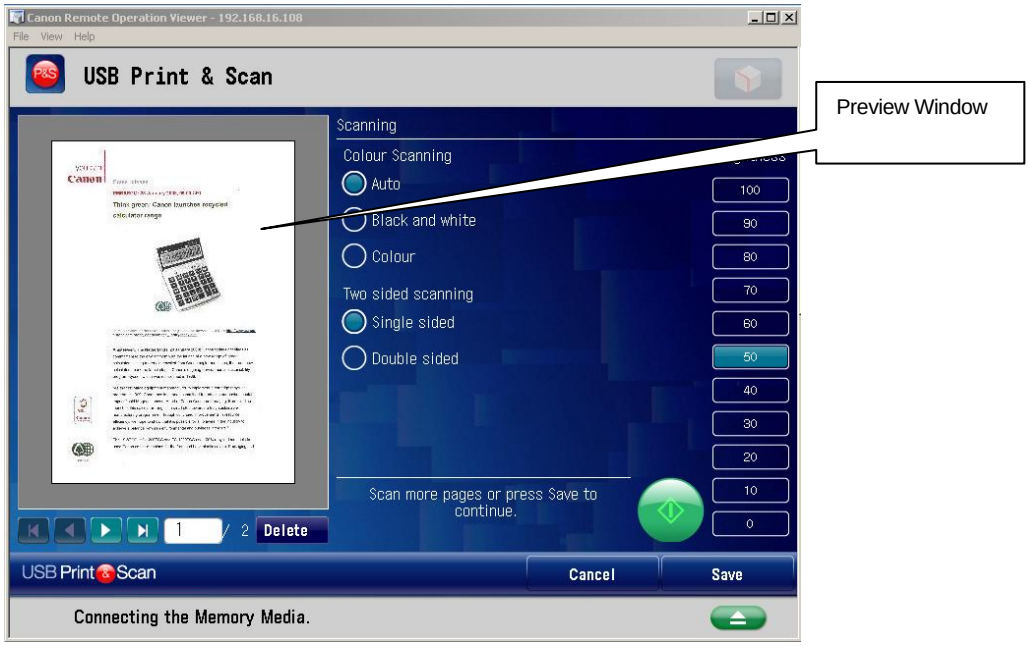
is shown in the table below:

Text	Condition
'Place your document into the feeder or on to the plattern and press the Green button to scan.'	Default condition
'Scanning in progress… please wait.'	During the scanning operation
'Scan more pages or press Save to continue.'	After the scanning is complete

NOTE While the scanning is in progress, the centre of the green Scan button changes to orange.

Preview Window

The [Preview Window] shows a preview image of the selected page. When there are no pages (e.g. when the panel is first opened) the window is empty.



If the preview image cannot be generated, the following error message is displayed:

'Document could not be previewed.'

Navigation Buttons

Subsequent pages of the scanned document can be accessed via the four navigation buttons below the preview window. These buttons are disabled appropriately when the extent of the document has been reached.

	Previous Page
	Next Page

	First Page
	Last Page

Page Selection Field

To the right of the navigation buttons, a label indicates the page number currently being previewed and the total number of pages.

Delete Page Button

Pressing the **Delete** button deletes the page currently displayed in the [Preview Window].

Colour Scan Setting Radio Buttons

A group of radio buttons are available that enable you to specify the colour settings to be used when scanning a document. These buttons are located at the top of the allocated area.

You can choose one of the following options:

- **Auto**[1] – the device decides the most appropriate scan setting to be used on a page by page basis.
- **Colour** – all pages in the document are scanned in full colour.
- **Grey scale**[2] – all pages in the document are scanned using grey scale.
- **Black and white** – all pages in the document are scanned in black and white.

The default setting is specified in the configuration. If you want to change the default setting see your Canon Representative for further information.

If your iR device does not have colour scanning capability then these radio buttons will not be displayed.

NOTE[1] In IMI mode, excluding the iR32xx and imageRUNNER ADVANCE device ranges, Auto cannot be selected.

NOTE[2] Grey scale can be selected on the following devices in CPCA mode:

iR3025(N) / 3035(N) / 3045(N)

iR5055(N) / 5065(N) / 5075(N)

iR3180C(i)

Two Sided Scan Setting Radio Buttons

A group of radio buttons are available that enable you to specify if you want one or two sides of each page in a document to be scanned. These buttons are displayed under the colour scanning control. If the colour scanning control is not visible then the buttons will be displayed at the top of the allocated area.

You can choose one of the following options:

- **Single sided** – scans one side of each page in the document.
- **Double sided** – scans both sides of each page in the document.

The default setting is specified in the configuration. If you want to change the default setting see your Canon Representative for further information.

If your iR device does not have a two sided scanning capability then these buttons will not be displayed.

Brightness Selector

The Brightness Selector enables you to specify the scanning density of the scanned image. The available range is 0% to 100% in steps of 10%. 100% gives the lightest, least dense scanned image, whilst 0% gives the darkest, most dense scanned image.

Pressing a number (or the adjacent rectangle) selects the scan brightness. The selected scan brightness is indicated by a filled in rectangle.

The default setting is specified in the configuration. If you want to change the default setting see your Canon Representative for further information.

NOTE If the "Restrict Options" is switched on for devices running in CPCA mode, then scanning will fail if the brightness setting is anything other than 50%. The "Restrict Options" setting on the device is navigable via "Settings / Registration" -> "Function Settings" -> "Common Settings" -> "Document Scan Lock Operation Settings" -> "Restrict Options".

Save Button

Pressing the **Save** button dismisses the [Scanning Panel] and the [Saving Panel] is displayed.

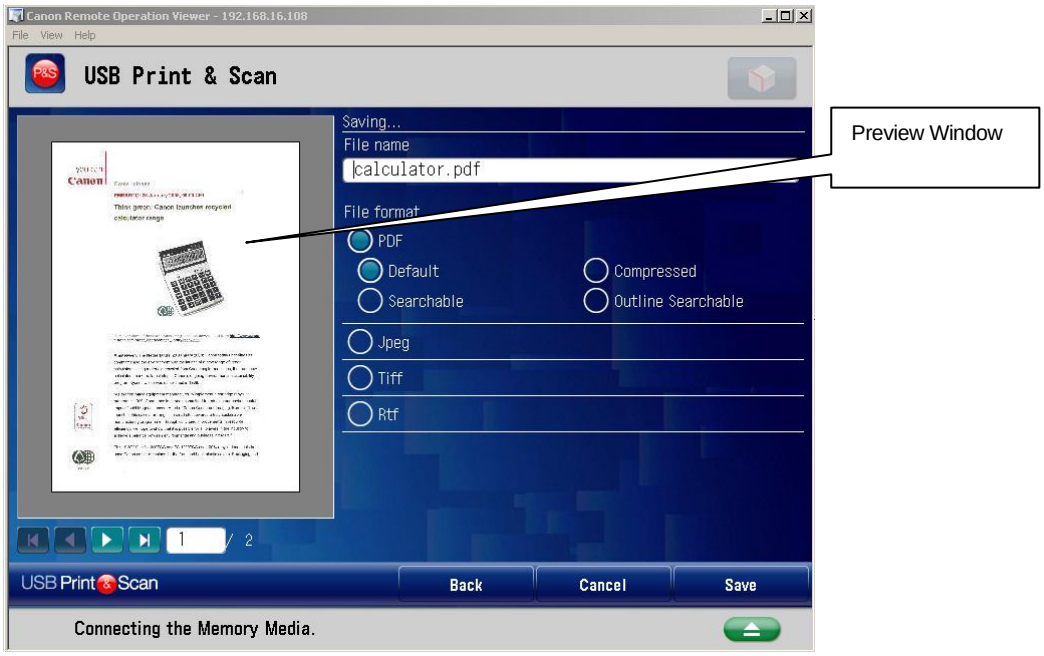
Cancel Button

Pressing the **Cancel** button dismisses the [Scanning Panel] and discards any scanned pages. The [File Browser Panel] is displayed.

Saving Panel

The [Saving Panel] is displayed when you press the **Save** button on the [Scanning Panel].

This panel enables you to set up various options before the file is saved.



Preview Window

The [Preview Window] shows a preview image of the current page. This window works in the same way as the *Preview Window* on the [Scanning Panel].

Navigation Buttons

The navigation buttons are for navigating through the pages in the document. They work in the same way as the *Navigation Buttons* on the [Scanning Panel].

Page Selection Field

This is a label which indicates the page number currently being previewed and the total number of pages. This is the same as the *Page Selection Field* on the [Scanning Panel].

File Name Field

Touching the ***File Name*** field opens the software keyboard panel, which enables you to specify the name of the new file. This must conform to the requirements of the file system to which the file is being written. See *File Names* for more information on the permitted file names. The default file name is the date and time, for example *20070215_175903.pdf*. If a hardware keyboard is connected then this is used to specify the name of the new file.

When a file format is selected (see *File Format Radio Buttons*) the current file extension, if there is one, is removed and replaced with the appropriate extension for the selected file format.

File Format Radio Buttons

This radio button list specifies the file format that the document will be saved in. See *File Formats* for more information on the permitted file formats.

PDF Format Radio Buttons

When a Postscript option is installed the PDF File Format option is displayed. Associated with this format is a set of controls that allow the format of the PDF file to be altered. See *File Formats* for more information. These buttons are disabled when the PDF radio button is not selected.

Back Button

Pressing the **Back** button displays the [Scanning Panel].

Save Button

Pressing the **Save** button saves the scanned pages into the current directory on the storage device in the selected format.

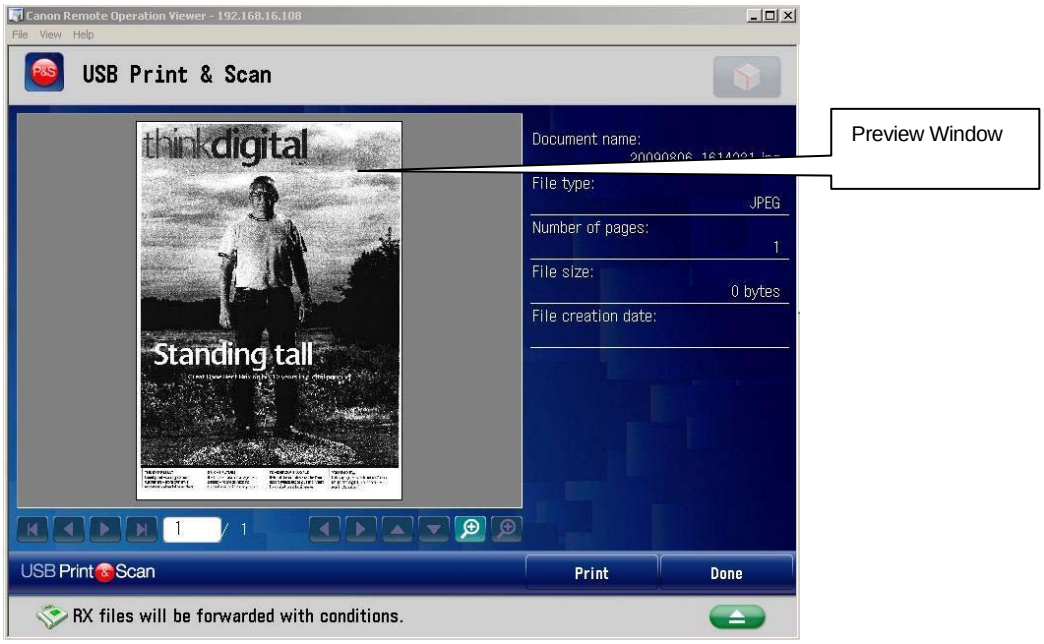
Cancel Button

Pressing the **Cancel** button dismisses the [Saving Panel] and discards any scanned pages. The [File Browser Panel] is displayed. Pressing this button whilst saving a document, deletes the files that were being saved.

Preview Panel

The [Preview Panel] is displayed when you press the **Preview** button on the [File Browser Panel].

This panel enables you to preview the pages of the selected document and to view information about the document.



Preview Window

The [Preview Window] shows a preview image of the current page. This window works in the same way as the *Preview Window* on the [Scanning Panel].

Navigation Buttons

The navigation buttons are for navigating through the pages in the document. They work in the same way as the *Navigation Buttons* on the [Scanning Panel].

Page Selection Field

This is a label which indicates the page number currently being previewed and the total number of pages. This is the same as the *Page Selection Field* on the [Scanning Panel].

Zoom In / Out Buttons

These buttons control the magnification factor of the [Preview Window].

	Zoom In
	Zoom Out

The zoom in button allows the preview image to be enlarged. The button can be pressed repeatedly until maximum zoom has been reached. The maximum amount of zoom depends on the device and the physical dimensions of the page. When maximum zoom is reached the zoom in button is disabled.

The zoom out button reduces the size of the preview image. The button can be pressed repeatedly until minimum zoom has been reached. When minimum zoom is reached the zoom in button is disabled

You can also zoom in and out by tapping on the preview window.

Scroll Buttons

These buttons control the portion of the image displayed in the [Preview Window].

	Left
	Up
	Right
	Down

Pressing the **Left** arrow button scrolls the image to the left. When the left edge of the image is visible this button is disabled.

Pressing the **Up** arrow button scrolls the image upwards. When the top edge of the image is visible this button is disabled.

Pressing the **Right** arrow button scrolls the image to the right. When the right edge of the image is visible this button is disabled.

Pressing the **Down** arrow button scrolls the image to the downward. When the bottom edge of the image is visible this button is disabled.

You can also drag and drop the document within the preview window if the image does not fit into the preview window to see portions of the image which are hidden.

Details Panel

The [Details Panel] displays additional information (as detailed in the table below) about the document. This information is static text and cannot be edited.

Document Name	The name of the document on the memory stick
File Type	PDF, TIFF, TXT, JPEG, DOC, XLS, PPT, DOCX, XLSX, PPTX, RTF
File Creation Date	The date the document was created
File Size	The file size of the document
Number of Pages	The number of pages in the document

Print Button

Pressing the **Print** button dismisses the [Preview Panel]. The [Print Settings Panel] is displayed.

Done Button

Pressing the **Done** button dismisses the [Preview Panel]. The [File Browser Panel] is displayed.

Print Settings Panel

The [Print Settings Panel] is displayed when you press the **Print** button on the [File Browser Panel].

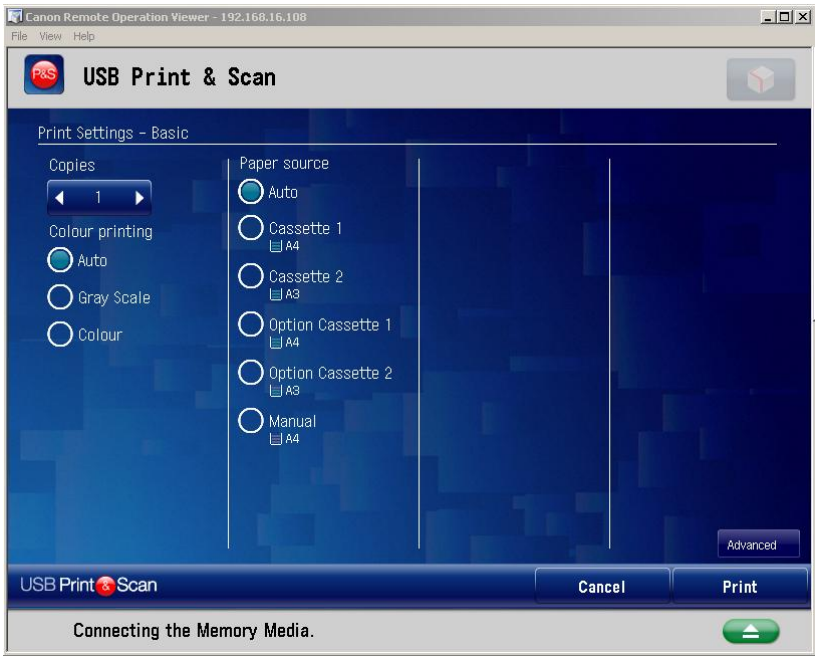
This panel enables you to specify the settings used to print the selected document.

The panel has both a basic and an advanced mode. This mode is activated using the **Advanced / Basic Settings** button.

In basic mode the following controls are available:

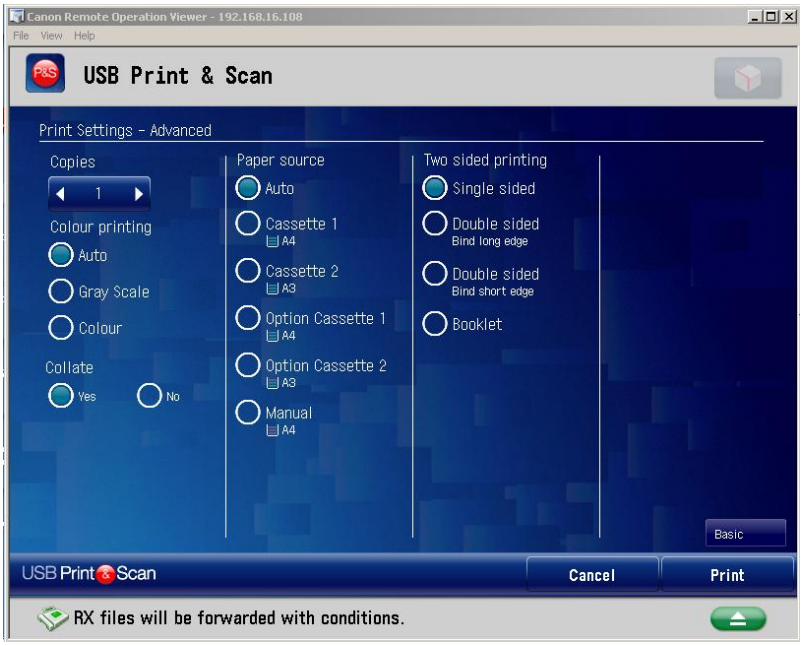
- Copies Control
- Paper Source Control
- Colour Printing Control
- Advanced / Basic Settings Button
- Print Button

- Cancel Button



In advanced mode the following additional controls are available:

- Two Sided Print Setting Control
- Group/Collate Setting Control
- Staple Setting Control
- Hole Punch Setting Control



Copies Control

The ***Copies*** field enables you to specify the number of copies you require of the selected document. The maximum number of copies is 9999.

Pressing the **C** key on the control panel reverts to the default value. The default setting is 1 copy. Values can be entered into the field using the numeric keypad on the control panel.

The number of copies can also be changed by using the **Left** and **Right** arrow buttons either side of the field. Pressing the **Right** arrow button increases the number of copies by 1. Pressing the **Left** arrow button decreases the number of copies by 1. When the minimum number of copies is displayed the left arrow is disabled.

Paper Source Control

This is a group of radio buttons that list all paper sources contained in the device.

The first item in the list will be 'Auto'. Selecting this option will mean that the iR device will choose the most appropriate paper source.

The remaining paper sources will consist of the paper source name, an image to reflect the amount of media remaining in the paper source and a label indicating the media size.

The table below shows the possible paper source names:

Name	Description
Auto	The device automatically determines the most appropriate source
Manual	The device attempts to take paper from the manual feed
Deck N*	The device attempts to take paper from Deck N*
Cassette N*	The device attempts to take paper from cassette N*

* N is a number between 1 and 4

NOTE If the selected source does not contain the correct paper size for the selected document the device will prompt you to insert the appropriate paper into the selected source.

NOTE If the paper in any of the paper sources are empty, then the associated radio button will be greyed out.

NOTE Printing a PDF or non native document from different paper sources:

- iR5075 and iR6880 allow you to print a PDF from any paper source except manual feed. If the document is previewed first then it is possible to print from manual feed.
- imageRUNNER ADVANCE devices allow you to print a PDF from any paper source, including manual feed.
- All other supported devices ignore paper source setting when printing PDF. However, if the document is previewed first then the selected paper source is honoured.

When the paper source can not be set due to device limitations 'Auto' is selected and the option is disabled.

The table below shows the icons that reflect how much paper remains:

Icon	Remaining Paper
	The paper source is empty
	The paper source is up to one third of its capacity
	The paper source is between one third and two thirds of its capacity
	The paper source is between two thirds and full capacity

The table below shows the supported paper sizes. If the paper size detected in a paper source is unknown then 'Unknown' will be displayed.

Paper Size Label
A3
A4
A5
11x17
Legal NA
Letter NA
Statement
Executive
B5 (JIS)
B4 (JIS)
Envelope Monarch
Envelope COM10
Envelope C5
Envelope B5
SRA3
12x18

Colour Printing Control

A group of radio buttons are available that enable you to specify the colour settings that will be used when the document is printed. You can choose one of the following options:

- **Auto** – the storage device decides the most appropriate setting to be used on a page by page basis.

- **Colour** – all pages are printed in full colour.
- **Grey scale** – all pages in the document are printed using grey scale.

The default setting is specified in the configuration. Refer to your Canon Representative for further information.

If the iR device does not have colour printing capability then this control will not be displayed.

Two Sided Print Setting Control

A group of radio buttons are available that enable you to specify if one or two sides of a page will be printed. You can choose one of the following options:

- Single sided
- Double sided bind on long edge
- Double sided bind on short edge
- Booklet
- Booklet saddle stitched*

*If the iR device does not have a saddle stitch finisher then this option will not be displayed.

The default setting is specified in the configuration. Refer to your Canon Representative for further information.

If the iR device does not have a duplex printing capability then these radio buttons will not be displayed.

NOTE When using the 'Booklet' option a paper size will be required that is double the size of the paper size of the document.

Group/Collate Setting Control

This is a combo box control that enables you to specify if the pages will be collated or grouped. You can choose one of the following options:

- **Yes** – pages are collated into separate copies.
- **No** – pages are grouped into batches of pages (e.g. all copies of page 1 are grouped together).

This control is disabled and set to 'Yes' when:

- Duplex is set to 'Booklet' or 'Booklet saddle stitched'.
- Staple is not set to 'None'.

The default setting is specified in the configuration. Refer to your Canon Representative for further information.

Staple Setting Control

If the iR device does not have stapling capability this control will not be displayed.

The **Staple Setting** radio button enables you to select whether or not to staple the printed document. The table below shows the available stapling options:

Staple Position	Number of Staples
None	0
Upper Left	1
Lower Left	1
Upper Right	1
Lower Right	1
Left	2
Right	2

This control is disabled and set to 'None' when:

- Duplex control is set to 'Booklet' or 'Booklet Saddle Stitched'.
- Group/Collate is set to 'Group'.

The default setting is specified in the configuration. Refer to your Canon Representative for further information.

Hole Punch Setting Control

If the iR device does not have hole punching capability this control will not be displayed.

The **Hole Punch** radio button enables you to select whether or not the printed document will be hole punched.

You can choose one of the following options:

- **Yes** – the document will be hole punched.
- **No** – the document will not be hole punched.

When 'Yes' is selected the printed document is hole punched with two holes. The location of the holes is on the trailing edge of the paper.

This control is disabled and set to 'Off' when:

- Duplex is set to 'Booklet' or 'Booklet saddle stitched'.

The default setting is specified in the configuration. Refer to your Canon Representative for further information.

Advanced / Basic Settings Button

Pressing the **Advanced / Basic** button changes the mode of the [Print Settings Panel].

In basic mode only the following controls are shown:

- Copies Control
- Paper Source Control

- Colour Print Control

In advanced mode all controls are shown.

Print Button

Pressing the **Print** button dismisses the [Print Settings Panel] and starts to print the selected document with the selected settings. The [File Browser Panel] is displayed.

If the document has not already been cached in the Document Cache Mailbox (see *Document Cache Mailbox* for further information) the document data is loaded from the USB memory device. As it is loaded it is submitted directly to the printer. It is not stored in the Document Cache Mailbox before printing begins.

If the document is already in the Document Cache it does not need to be loaded and is printed directly from the Mailbox with the selected settings.

As printing occurs, a progress bar is displayed. See *Progress Bar* for further information.

Cancel Button

Pressing the **Cancel** button dismisses the [Print Settings Panel] and the [File Browser Panel] is displayed. Any settings made in the [Print Settings Panel] are discarded.

PDF version not supported dialog

When a PDF file is being printed/previewed the application checks the PDF version of the document being printed. If the version of PDF is not natively printed by the device then this dialog **may** be displayed. The conditions under which the dialog is displayed are shown in the following table:

Configuration setting for PDF Not Supported dialog	USB Print & Scan Server V3.0 PDF Support plug-in	Dialog displayed	Dialog Options and Outcome
Hide	No	No	Document is printed/previewed natively regardless of the PDF version
Hide	Yes	No	Document with native PDF version are printed/previewed natively. Documents with non native PDF version may be converted. The behaviour of non native PDF versions can be configured through the configuration servlet, where an engineer can set the

Configuration setting for PDF Not Supported dialog	USB Print & Scan Server V3.0 PDF Support plug-in	Dialog displayed	Dialog Options and Outcome
			default behaviour to "convert" or "try to print".
Show	No	Yes – when printing non native PDFs only	Continue button – native document is printed/previewed. Cancel button – operation is cancelled.
Show	Yes	Yes – when printing non native PDFs which have not been previewed and converted in that process. Previewing and converting a document will cache it as converted cached, so the dialog will not be shown for the cached document anymore.	Continue button – native document is printed/previewed. Convert – converted document is printed/previewed. Cancel button – operation is cancelled.
Always Show	No	Yes – when printing non native PDFs only.	Continue button – native document is printed/previewed. Cancel button – operation is cancelled.
Always Show	Yes	Yes – when printing non native PDFs only.	Continue button – native document is printed/previewed. Convert – converted document is printed/previewed. Cancel button – operation is cancelled.

As well as the Pdf Not Supported dialog setting (default setting is "Show"), you can also specify the following configurable items. Please contact your Canon Representative to change the default configuration:

- Highest supported Pdf Version – if set to "Auto", the application will use the PDF version supported on the device, to work out if there is an incompatibility with the PDF version of the document. This can be overridden by setting a specific version. The default setting is

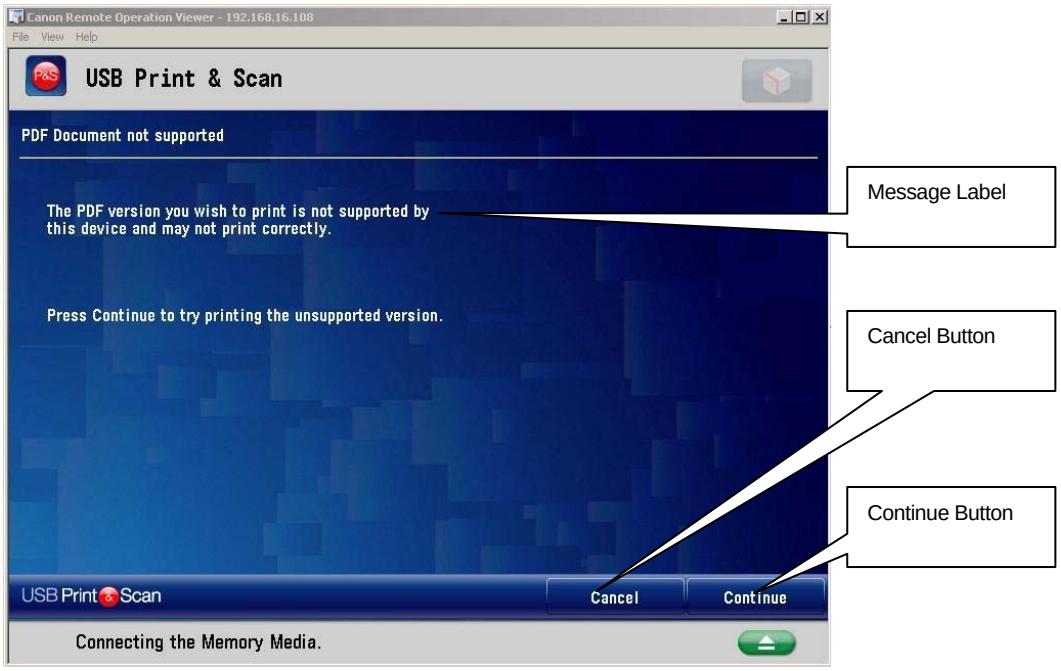
"Auto".

- Default Pdf Conversion Action – if the dialog is not showing and there is a PDF version incompatibility, you can set this configurable item, so the application always tries to print or always converts. The default setting is "TryTo Print".

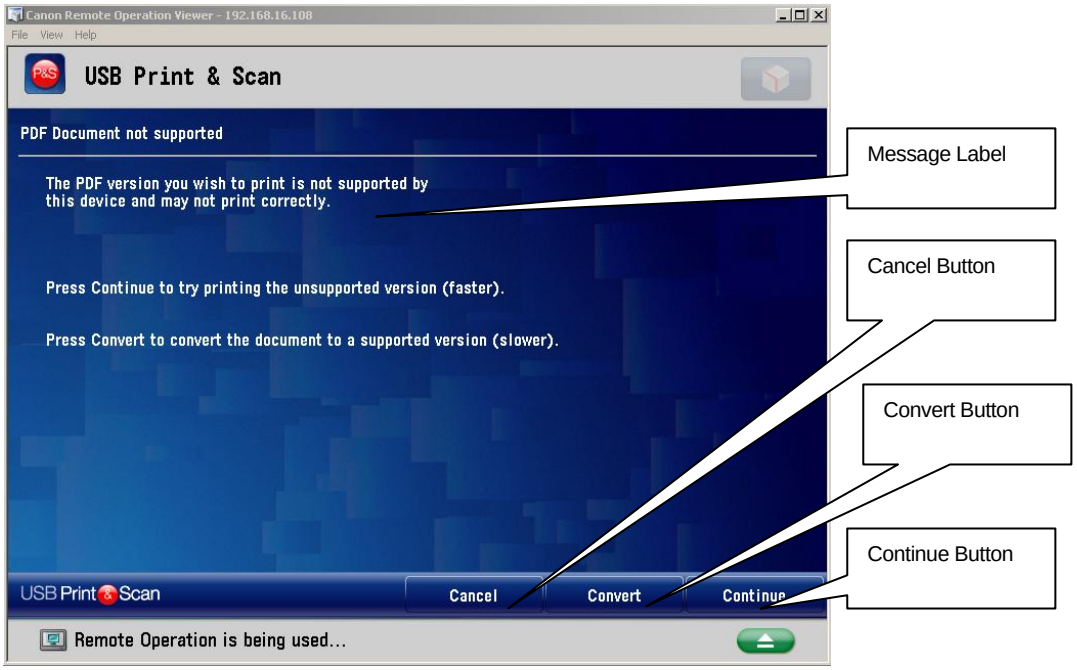
The four different versions of the dialog are shown in the following screen shots and they contain all of the following controls:

- Message label
- Continue button
- Convert button
- Cancel button

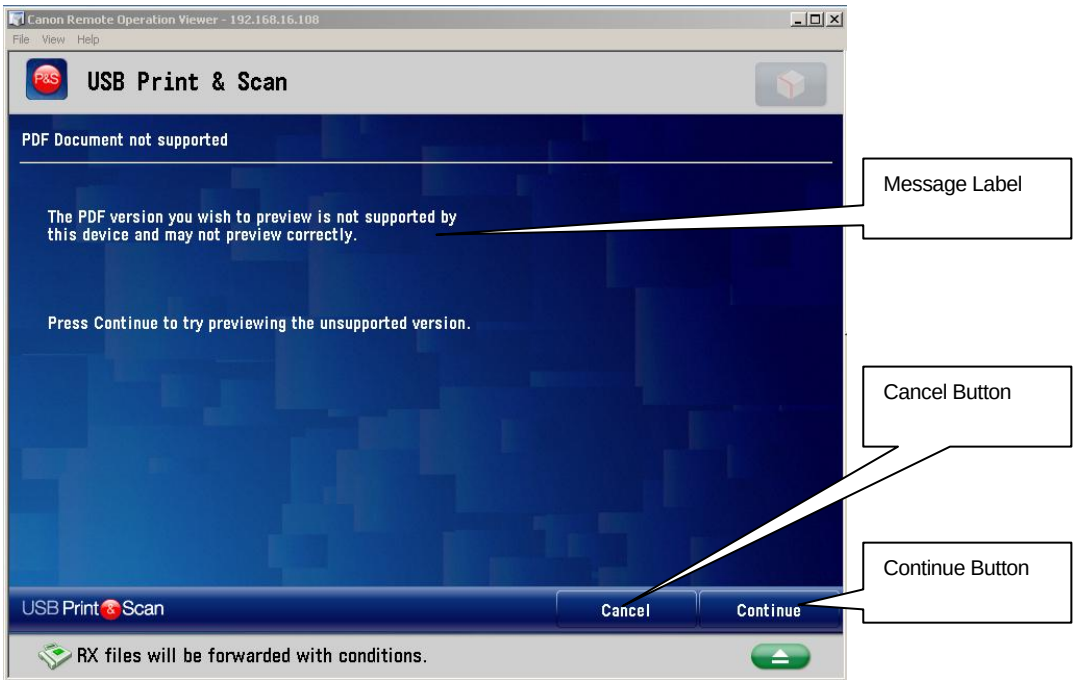
The following is the screenshot of the dialog when printing an unsupported version of PDF and **not** connected to the USB Print & Scan Server V3.0 PDF Support plug-in:


Canon Remote Operation Viewer - 192.168.16.108
File View Help
USB Print & Scan
PDF Document not supported
The PDF version you wish to print is not supported by this device and may not print correctly.
Press Continue to try printing the unsupported version.
USB Print Scan
Cancel
Continue
Connecting the Memory Media.
Message Label
Cancel Button
Continue Button

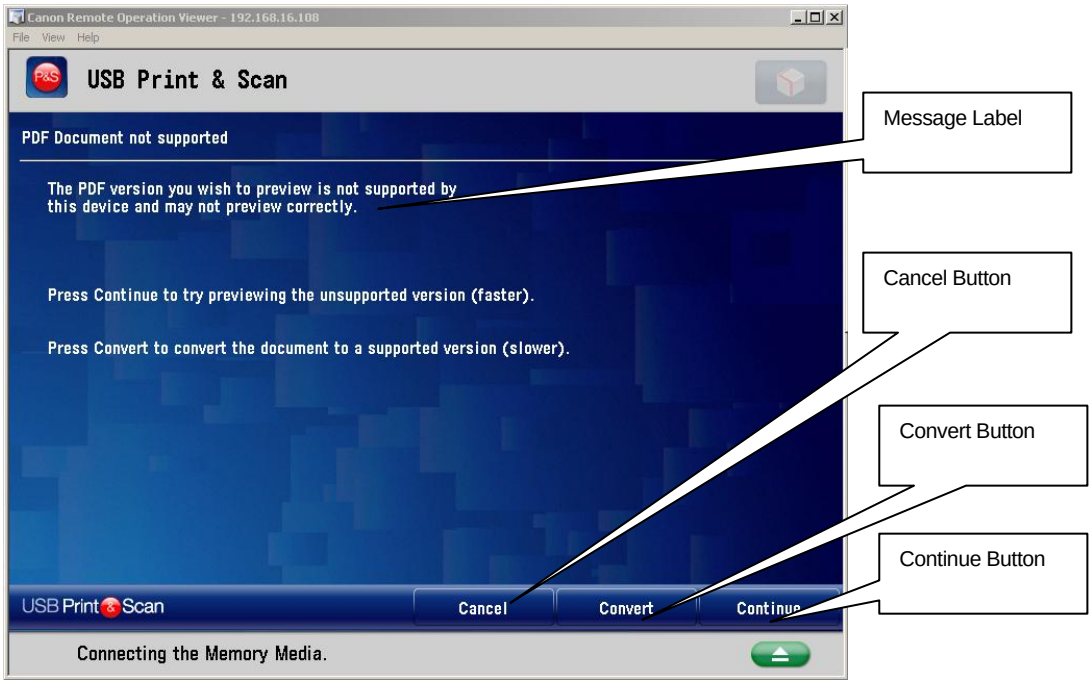
The following is the screenshot of the dialog when printing an unsupported version of PDF and connected to the USB Print & Scan Server V3.0 PDF Support plug-in:


Canon Remote Operation Viewer - 192.168.16.108
File View Help
USB Print & Scan
PDF Document not supported
The PDF version you wish to print is not supported by this device and may not print correctly.
Press Continue to try printing the unsupported version (faster).
Press Convert to convert the document to a supported version (slower).
USB Print & Scan
Cancel
Convert
Continue
Remote Operation is being used...
Message Label
Cancel Button
Convert Button
Continue Button

The following is the screenshot of the dialog when previewing an unsupported version of PDF and **not** connected to the USB Print & Scan Server V3.0 PDF Support plug-in:


Canon Remote Operation Viewer - 192.168.16.108
File View Help
USB Print & Scan
PDF Document not supported
The PDF version you wish to preview is not supported by this device and may not preview correctly.
Press Continue to try previewing the unsupported version.
USB Print & Scan
Cancel
Continue
RX files will be forwarded with conditions.
Message Label
Cancel Button
Continue Button

The following is the screenshot of the dialog when previewing an unsupported version of PDF and connected to the USB Print & Scan Server V3.0 PDF Support plug-in:


Canon Remote Operation Viewer - 192.168.16.108
File View Help
USB Print & Scan
PDF Document not supported
The PDF version you wish to preview is not supported by this device and may not preview correctly.
Press Continue to try previewing the unsupported version (faster).
Press Convert to convert the document to a supported version (slower).
USB Print Scan
Cancel
Convert
Continue
Connecting the Memory Media.
Message Label
Cancel Button
Convert Button
Continue Button

Message Label

The message label indicates to the user the document they have selected is not natively printed by the device. When the USB Print & Scan Server V3.0 PDF Support plug-in is **not** connected, the message contains the following text:

> The PDF version you wish to print is not supported by
> this device and may not print correctly.
>
> Press Continue to try printing the unsupported version (fast).

If the USB Print & Scan Server V3.0 PDF Support plug-in is connected then the message contains the following text:

> The PDF version you wish to print is not supported by
> this device and may not print correctly.
>
> Press Continue to try printing the unsupported version (fast).
>
> Press Convert to convert the document to a supported version (slow).

Continue Button

Pressing the Continue button prints/previews the native PDF document.

Convert Button

This button is only present when the USB Print & Scan Server V3.0 PDF Support plug-in is connected and operational. When the button is pressed the document is sent to the server to be converted to PDF version 1.3. The document is then returned to the device and

printed/previewed.

Cancel Button

Pressing the Cancel button returns the user to the file browser panel.

Appendix A: Glossary

This appendix provides a glossary of terms.

Appendix A: Glossary ..... Error! Bookmark not defined.

Glossary of Terms ..... Error! Bookmark not defined.

Glossary of Terms

Term	Definition
HDD	Hard Disk Drive.
iR	Brand name for Canon MFPs.
MEAP	Multifunctional Embedded Application Platform. A platform for running Java based application on a Canon MFP.
MFP	Multifunctional Printer. A device that offers printing, scanning and other document based services.
USB	Universal Serial Bus.
USB Mass Storage Device	A class of USB device that allows storage of large amount of data.
FAT 12; FAT 16; FAT 32	The FAT (File Allocation Table) file system has three FAT file system types differentiated by the size in bits of the entries in the actual FAT structure on the disk.
NTFS	Windows NT file system.
PDF	Portable Document Format.
TIFF	Tagged Image File Format
JPEG	A standard compressed file format used for digital images.
TXT	A filename extension for files consisting of text.
RTF	Rich Text Format.
DOC	MS Office Word.
XLS	MS Office Excel.
PPT	MS Office PowerPoint.
DOCX	MS Office Word 2007.
XLSX	MS Office Excel 2007.
PPTX	MS Office PowerPoint 2007.
IMI	Integrated MEAP-Device Interface

Term	Definition
PS	Postscript